

Topic: Unit 3: Linear Functions

Days: 12

Subject(s):

Grade(s):

Know:

Understand:

Do:

<p>Key vocabulary</p> <p>Linear equation</p> <p>Graphing linear equations</p> <p>Evaluating equations</p> <p>Domain and Range</p>	<p>The need to formulate linear equation, interpret and determine the reasonableness of the solutions</p>	<p>Recognize and represent relations</p> <p>Interpret graphs of relations</p> <p>Recognize and determine whether a relation is a function</p> <p>Evaluate and determine values (domain and range) of functions</p> <p>Graph linear equation</p> <p>Solve linear equation by graphing</p> <p>Perform rate of change and slope calculations</p> <p>Solve problems involving direct variation</p> <p>Relate proportional and non-proportional relationships to linear functions</p>
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Which standards are students learning in this unit?

MA.912.A.2.3 Describe the concept of a function, use function notation, determine whether a given relation is a function, and link equations to functions

MA.912.A.2.4 Determine the domain and range of a relation

MA.912.A.3.4: Solve and graph simple and compound inequalities in one variable and be able to justify each step in a solution.

MA.912.A.3.5: Symbolically represent and solve multi-step and real-world applications that involve linear equations and inequalities.

MA.912.A.3.8: Graph a line given any of the following information: a table of values, the x- and y-intercept, two points, the slope and a point, the equation of the line in slope-intercept form, standard form, or point-slope form.

MA.912.A.3.9: Determine the slope, x-intercept, and y-intercept of a line given its graph, its equation, or two points on the line

MA.912.A.3.12 Graph a linear equation or inequality in two variables with and without graphing technology. Write an equation or inequality represented by a given graph.

MA.912.A.3.13: Use a graph to approximate the solution of a system of linear equations or inequalities in two variables with and without technology.